

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE INTERNATIONAL PATENT COOPERATION TREATY (PCT)**(19) World Intellectual Property Organization**
International Bureau**(43) International Publication Date**
April 29, 2004 (4/29/2004)**PCT****(10) International Publication Number**
WO 2004/034775 A2**(51) International Patent Classification⁷:** A01J 7/00**(21) International Application Number:** PCT/EP2003/011563**(22) International Filing Date:** October 17, 2003 (10/17/2003)**(25) Filing Language:** Germany**(26) Publication Language:** Germany**(30) Priority Data:**
102 48 561.5 October 17, 2002 (10/17/2002) DE**(71) Applicant (for all designated States except US):**
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(Germany).**(81) Designated States (national):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**(84) Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**Published:**

--- Without international search report, to be published again after receipt of the report

For two-letter codes and other abbreviations refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title:**DEVICE AND METHOD FOR DISINFECTING A MILKING COMPONENT****(57) Abstract:** The invention relates to a device and a method for disinfecting a milking component, said device comprising a container for storing a disinfectant base material, and a processing unit. Said processing unit can be used to produce a disinfectant containing chlorine dioxide, from the disinfectant base material by means of a chemical reaction. A guiding element is used to bring the disinfectant into contact with the milking component, essentially directly after being produced, in order to disinfect the milking component.